

### LA-UR-19-22683

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Presentation to Pueblo de San Ildefonso (March 28, 2019) - NPDES Permit NM0028355 - Discharge Monitoring Reports Title:

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Intended for: **Environmental Regulatory Document** 

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# Los Alamos National Laboratory Discharge Monitoring Reports for

National Pollution Discharge Elimination System

Permit # NM0028355

October 1, 2014 to September 30, 2019

March 28, 2019

PUEBLO DE SAN ILDEFONSO

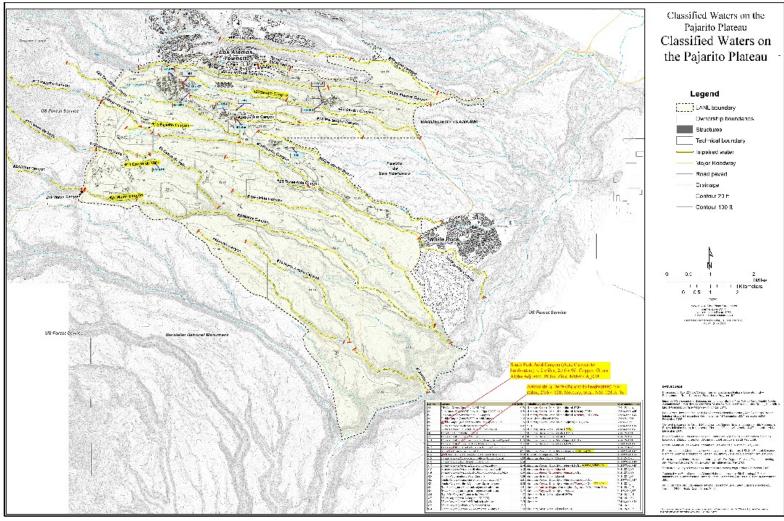
Department of Environmental & Cultural Preservation



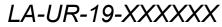
LA-UR-19-XXXXX



# **LANL Classified Waters – Impaired Waters**









# Perennial Reach (20.6.4.126 NMAC)



NPDES Outfall to Sandia Canyon

- Perennial Reaches within Los Alamos National Laboratory
- Sandia Canyon, Canon De Valle, Water Canyon and Pajarito Canyon
- Designatged Uses: coldwater aquatic life, livestock watering, wildlife habitat and secondary contact
- Use Specific Criteria in 20.6.4.900



LA-UR-19-XXXX

National Nuclear Security Administration

### 20.6.4.900 Criteria Applicable to Existing, Designated or Attainable Uses

- **E. Secondary contact:** The monthly geometric mean of E. coli bacteria of 548 cfu/100 mL or MPN/100 mL and single sample of 2507 cfu/100 mL or MPN/100 mL apply to this use. The results for *E. coli* may be reported as either colony forming units (CFU) or the most probable number (MPN), depending on the analytical method used.
- **F. Livestock watering:** the criteria listed in Subsection J of this section for livestock watering apply to this use.
- **G. Wildlife habitat:** Wildlife habitat shall be free from any substances at concentrations that are toxic to or will adversely affect plants and animals that use these environments for feeding, drinking, habitat or propagation; can bioaccumulate; or might impair the community of animals in a watershed or the ecological integrity of surface waters of the state. The numeric criteria listed in Subsection J for wildlife habitat apply to this use.





### 20.6.4.900 Criteria Applicable to Existing, Designated or Attainable Uses

H. Aquatic life: Surface waters of the state with a designated, existing or attainable use of aquatic life shall be free from any substances at concentrations that can impair the community of plants and animals in or the ecological integrity of surface waters of the state. Except as provided in Paragraph (7) of this subsection, the acute and chronic aquatic life criteria set out in Subsections I, J, K and L of this section and the human health-organism only criteria set out in Subsection J of this section are applicable to all aquatic life use subcategories. In addition, the specific criteria for aquatic life subcategories in the following paragraphs apply to waters classified under the respective designations.

(1) High quality coldwater: dissolved oxygen 6.0 mg/L or more, 4T3 temperature 20°C (68°F), maximum temperature 23°C (73°F), pH within the range of 6.6 to 8.8 and specific conductance a segment-specific limit between 300 μS/cm and 1,500 μS/cm depending on the natural background in the particular surface water of the state (the intent of this criterion is to prevent excessive increases in dissolved solids which would result in changes in community structure). Where a single segment-specific temperature criterion is indicated in 20.6.4.101-899 NMAC, it is the maximum temperature and no 4T3 temperature applies.

(2) Coldwater: dissolved oxygen 6.0 mg/L or more, 6T3 temperature 20°C (68°F), maximum temperature 24°C (75°F) and pH within the range of 6.6 to 8.8. Where a single segment-specific temperature criterion is indicated in 20.6.4.101-899 NMAC, it is the maximum temperature and no 6T3 temperature applies.







### Acute and Chronic Criteria for Metals (20.6.4.900.I)

| Hardness as CaCO <sub>3</sub> , dissolved (mg/L) |         | Al     | Cd   | Cr III | Cu | Pb  | Mn    | Ni   | Ag  | Zn  |
|--|---------|--------|------|--------|----|-----|-------|------|-----|-----|
| (8, 2-)  | Chronic | 391    | 0.23 | 35     | 4  | 1   | 1,216 | 24   | 8   | 53  |
| 50   | Acute   | 1,324  | 0.91 | 320    | 7  | 30  | 2,370 | 260  | 1.0 | 85  |
| 50   | Chronic | 530    | 0.28 | 42     | 5  | 1   | 1,309 | 29   |     | 65  |
| 60   | Acute   | 1,699  | 1.07 | 370    | 8  | 37  | 2,519 | 300  | 1.3 | 101 |
| 00   | Chronic | 681    | 0.31 | 49     | 6  | 1   | 1,391 | 34   |     | 76  |
| 70   | Acute   | 2,099  | 1.22 | 430    | 10 | 44  | 2,651 | 350  | 1.7 | 116 |
| 70   | Chronic | 841    | 0.35 | 55     | 7  | 2   | 1,465 | 38   |     | 88  |
| 80   | Acute   | 2,520  | 1.37 | 470    | 11 | 51  | 2,772 | 390  | 2.2 | 131 |
| 00   | Chronic | 1,010  | 0.39 | 62     | 7  | 2   | 1,531 | 43   |     | 99  |
| 90   | Acute   | 2,961  | 1.51 | 520    | 12 | 58  | 2,883 | 430  | 2.7 | 145 |
| 90   | Chronic | 1,186  | 0.42 | 68     | 8  | 2   | 1,593 | 48   |     | 110 |
| 100  | Acute   | 3,421  | 1.65 | 570    | 13 | 65  | 2,986 | 470  | 3.2 | 160 |
| 100  | Chronic | 1,370  | 0.45 | 74     | 9  | 3   | 1,650 | 52   |     | 121 |
| 200  | Acute   | 8,838  | 2.98 | 1,010  | 26 | 140 | 3,761 | 840  | 11  | 301 |
| 200  | Chronic | 3,541  | 0.75 | 130    | 16 | 5   | 2,078 | 90   |     | 228 |
| 220  | Acute   | 10,071 | 3.23 | 1,087  | 28 | 151 | 3,882 | 912  | 13  | 328 |
| 220  | Chronic | 4,035  | 0.80 | 141    | 18 | 6   | 2,145 | 101  |     | 248 |
| 300  | Acute   |        | 4.21 | 1,400  | 38 | 210 | 4,305 | 1190 | 21  | 435 |
| 300  | Chronic |        | 1.00 | 180    | 23 | 8   | 2,379 | 130  |     | 329 |
| 400 and  | Acute   |        | 5.38 | 1,770  | 50 | 280 | 4,738 | 1510 | 35  | 564 |
| above  | Chronic |        | 1.22 | 230    | 29 | 11  | 2,618 | 170  |     | 428 |







# **Table Numeric Criteria**

| D. W                   | 616           |        |     |    |       |       | Aquatic L | ife     |      |
|------------------------|---------------|--------|-----|----|-------|-------|-----------|---------|------|
| Pollutant              | CAS<br>Number | DWS    | Irr | LW | WH    | Acute | Chronic   | НН-00   | Type |
| 2-Methyl-4,6-          |               |        |     |    |       |       |           |         |      |
| dinitrophenol          | 534-52-1      | 14     |     |    |       |       |           | 280     |      |
| Methylene chloride     | 75-09-2       | 5      |     |    |       |       |           | 5,900   | С    |
| Nitrobenzene           | 98-95-3       | 18     |     |    |       |       |           | 690     |      |
| N-Nitrosodimethylamine | 62-75-9       | 0.0069 | 1   |    |       |       |           | 30      | С    |
| N-Nitrosodi-n-         |               |        |     |    |       |       |           |         |      |
| propylamine            | 621-64-7      | 0.050  |     |    |       |       |           | 5.1     | C    |
| N-Nitrosodiphenylamine | 86-30-6       | 71     |     |    |       |       |           | 60      | C    |
| Nonylphenol            | 84852-15-3    |        |     |    |       | 28    | 6.6       |         |      |
| Polychlorinated        |               |        |     |    |       |       |           |         |      |
| Biphenyls (PCBs)       | 1336-36-3     | 0.50   |     |    | 0.014 | 2     | 0.014     | 0.00064 | C,P  |

| Pollutant                        | CAS<br>Number | DWS      | Irr   | LW          | WH   | Acute | Chronic | нн-оо                          | Type |
|----------------------------------|---------------|----------|-------|-------------|------|-------|---------|--------------------------------|------|
| Copper, dissolved                | 7440-50-8     | 1300     | 200   | 500         |      | a     | a       |                                |      |
| Cyanide, total<br>recoverable    | 57-12-5       | 200      |       |             | 5.2  | 22.0  | 5.2     | 140                            |      |
| Lead, dissolved                  | 7439-92-1     | 15       | 5,000 | 100         |      | a     | a       |                                |      |
| Manganese, dissolved             | 7439-96-5     |          |       |             |      | a     | a       |                                |      |
| Mercury                          | 7439-97-6     | 2        |       | 10          | 0.77 |       |         |                                |      |
| Mercury, dissolved               | 7439-97-6     |          |       |             |      | 1.4   | 0.77    |                                |      |
| Methylmercury                    | 22967-92-6    |          |       |             |      |       |         | 0.3 mg/kg<br>in fish<br>tissue | Р    |
| Molybdenum, dissolved            | 7439-98-7     |          | 1,000 |             |      |       |         |                                |      |
| Molybdenum, total<br>recoverable | 7439-98-7     |          |       |             |      | 7,920 | 1,895   |                                |      |
| Nickel, dissolved                | 7440-02-0     | 700      |       |             |      | a     | а       | 4,600                          | P    |
| Nitrate as N                     |               | 10 mg/L  |       |             |      |       |         |                                |      |
| Nitrite + Nitrate                |               |          |       | 132<br>mg/L |      |       |         |                                |      |
| Selenium, dissolved              | 7782-49-2     | 50       | ь     | 50          |      |       |         | 4,200                          | P    |
| Selenium, total<br>recoverable   | 7782-49-2     |          |       |             | 5.0  | 20.0  | 5.0     |                                |      |
| Silver, dissolved                | 7440-22-4     |          |       |             |      | a     |         |                                |      |
| Thallium, dissolved              | 7440-28-0     | 2        |       |             |      |       |         | 0.47                           | P    |
| Uranium, dissolved               | 7440-61-1     | 30       |       |             |      |       |         |                                |      |
| Vanadium, dissolved              | 7440-62-2     |          | 100   | 100         |      |       |         |                                |      |
| Zinc, dissolved                  | 7440-66-6     | 10,500   | 2,000 | 25,000      |      | a     | a       | 26,000                         | P    |
| Adjusted gross alpha             |               | 15 pCi/L |       | 15<br>pCi/L |      |       |         |                                |      |

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ational Nuclear Security Administration

### **Outfall 001 Permit Limits and Monitoring Requirements**

MODIFICATION Effective May 1, 2015 MINOR CORRECTION Outfall 001 4-9-15

#### PART I - REQUIREMENTS FOR NPDES PERMITS

#### EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

#### OUTFALL 001

Discharge Type: Continuous Latitude 35°52'26"N, Longitude 106°19'09"W (TA-3-22)

During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted), the permittee is authorized to discharge Power Plant waste water from cooling towers, boiler blowdown drains, demineralizer backwash, R/O reject, floor and sink drains, and treated sanitary re-use to Sandia Canyon, and the discharge creates a perennial portion of Sandia Canyon, Segment Number 20.6.4.126 of the Rio Grande Basin.

Such discharges shall be limited and monitored by the permittee as specified below:

| EFFLUENT CHARACTERIST      | <u>IC</u>       | DISCHARGE   | LIMITATIONS     |            | MONITORING | REQUIREMENTS                |
|----------------------------|-----------------|-------------|-----------------|------------|------------|-----------------------------|
|                            | CONCENTRA       | TION        | LOADING         |            | FREQUENCY  | SAMPLE TYPE                 |
|                            | (mg/L, unless s | tated)      | (Lbs/day, unles | ss stated) |            |                             |
|                            | MONTHLY         | DAILY       | MONTHLY         | DAILY      |            |                             |
|                            | AVERAGE M       | 1AXIMUM     | AVERAGE         | MAXIMUM    |            |                             |
|                            |                 |             |                 |            |            |                             |
| Flow (MGD)                 | ***             | ***         | Report          | Report     | Continuous | Record                      |
| TSS                        | 30              | 100         | Report          | Report     | 1/Month    | 24-hr Composite             |
| E. Coli (#/100 ml) (*1)    | 126             | 410         | ***             | ***        | 2/Month    | Grab                        |
| Total Residual Chlorine    | ***             | 0.011 (*2)  | ***             | ***        | 1/Week     | Grab                        |
| Total Recoverable Aluminun | ı ***           | 0.9889 (*3) | ***             | ***        | 1/Year     | Grab                        |
| Dissolved Copper           | ***             | 0.0073 (*3) | ***             | ***        | 1/Year     | Grab                        |
| Adjusted Gross Alpha       | Report          | Report      | ***             | ***        | 1/Term     | Grab                        |
| Temperature (°C)           | 24°C (*4)       | 24°C        | ***             | ***        | 1/Week     | Grab                        |
| 6T3 Temperature (°C)       | 20°C (*5)       | ***         | ***             | ***        | 1/Hour     | Grab (or Continuous Record) |
| Total PCB (µg/l) (*6)      | 0.00064         | 0.00064     | Report          | Report     | 1/Year     | 24-hr Composite             |
| pH (Standard Unit)         | Range from 6    | .6 to 8.8   | ***             | ***        | 1/Week     | Grab                        |



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### Outfall 001 Permit Limits and Monitoring Requirements (cont.)

MODIFICATION Effective May 1, 2015
MINOR CORRECTION Outfall 001 4-9-15

| EFFLUENT                | DISCHARGE MON | IITORING      | MONITORING REQUIREMENTS |                 |  |  |
|-------------------------|---------------|---------------|-------------------------|-----------------|--|--|
| CHARACTERISTICS         |               |               |                         |                 |  |  |
| WHOLE EFFLUENT TOXICITY |               |               |                         |                 |  |  |
| TESTING (*7)            | MONTHLY AVG   |               | MEASUREMENT             |                 |  |  |
| (7-day Static Renewal)  | MINIMUM       | 7-DAY MINIMUM | FREQUENCY               | SAMPLE TYPE     |  |  |
| Ceriodaphnia dubia      | Report        | Report        | 1/5 Years               | 24-Hr Composite |  |  |
| Pimephales promelas     | Report        | Report        | 1/5 Years               | 24-Hr Composite |  |  |

#### SAMPLING LOCATION(S)

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): following final treatment and prior to or at the point of discharge from Outfall 001.

#### NO DISCHARGE REPORTING

If there is no discharge event at this outfall during the sampling month, place an "X" in the <u>NO DISCHARGE</u> box in the Discharge Monitoring Report.

#### FLOATING SOLIDS, OIL AND GREASE

There shall be no discharge of oils, scum, grease and other floating materials that would cause the formation of a visible sheen or visible deposits on the bottom or shoreline, or would damage or impair the normal growth, function or reproduction of human, animal, plant or aquatic life.

#### **FOOTNOTES**

- \*1 Geometric mean. Effluent limitations and monitoring requirements only apply when effluent from Outfall 13S is rerouted and discharged at Outfall 001.
- \*2 Effluent limitation for TRC is the instantaneous maximum and cannot be averaged for reporting purposes.
- \*3 Effluent limitations take effective on the date of three years from the effective date of the permit.
- \*4 Monitoring and reporting requirements for temperature end when 6T3 Temperature limitation becomes effective.
- \*5 6T3 Temperature of 20°C (68°F) shall not be exceeded for six or more consecutive hours in a 24-hour period on more than three consecutive days. The effluent limitation and monitoring requirements of 6T3 takes effective on the date one-day before







### Outfall 001 Permit Limits and Monitoring Requirements (cont.)

MODIFICATION Effective May 1, 2015

MINOR CORRECTION Outfall 001 4-9-15

- the permit expiration date. Daily maximum temperature shall be determined by 6T3 temperature record when 6T3 temperature becomes in effect.
- \*6 EPA published congener Method 1668 Revision and detection limits shall be used. [The permittee is allowed to develop an effluent specific MDL in accordance with Appendix B of 40 CFR Part 136 (instructions in Part II.A of this permit).] Human health-based limitations.
- \*7 Critical dilution 100%, and the dilution series are 32%, 42%, 56%, 75%, 100%. See Part II, Section G. Whole Effluent Toxicity (7-Day Chronic Testing).



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National Nuclear Security Administration

# **Outfall 001 Monthly DMR February 2019**

#### NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS: (Include Facility Name/Location if different)

TRIAD NATIONAL SECURITY, LLC ADDRESS: LOS ALAMOS NATIONAL LABORATORY

PO BOX 1663; MAIL STOP K490 LOS ALAMOS, NEW MEXICO 87545 FACILITY: TRIAD NATIONAL SECURITY, LLC

LOCATION: LOS ALAMOS, NEW MEXICO 87545

| NM0028355     |
|---------------|
| PERMIT NUMBER |

| 001-A            |
|------------------|
| DISCHARGE NUMBER |
|                  |

MONITORING PERIOD YEAR MO DAY то 19 02

OMB No. 2040-004

DMR MAILING ZIP CODE: 87545

POWER PLANT WASTEWATER

EXTERNAL OUTFALL Page 1

No Discharge

| PARAMETER   | $\searrow$   | QUANTITY OF LOADING   |  |   | (              | QUALITY OF CONCENTRATION |                   |                       |     | FREQUENCY<br>OF ANALYSIS | SAMPL |
|---|--|---|--|---|----------------|--------------------------|-------------------|-----------------------|-----|--------------------------|-------|
|   |  | VALUE   | VALUE  | UNITS   | VALUE          | VALUE                    | VALUE             | UNITS                 |     |                          |       |
| Temperature, Water Deg. Centigrade<br>00010 1 0     | SAMPLE<br>MEASUREMENT  | ****  | ****   | *****   | *****          | 11.1                     | 12.5              | 40                    | 0   | 4/28                     | GRAE  |
| Effluent Gross                                      | PERMIT<br>REQUIREMENT  | *****   | ****   |   | ****           | 24<br>MONTHLY AV         | 24<br>DAILY MX    | deg C                 |     | WEEKLY                   | GRAE  |
| pH<br>00400 1 0                                     | SAMPLE<br>MEASUREMENT  | ****  | ****   | ****  | 7.3            | ****                     | 7.6               |                       | 0   | 4/28                     | GRAE  |
| Effluent Gross                                      | PERMIT<br>REQUIREMENT  | *****   | ****   |   | 6.6<br>MINIMUM | ****                     | 8.8<br>MAXIMUN    | S.U.                  |     | WEEKLY                   | GRAE  |
| Solids, Total Suspended<br>00530 1 0                | SAMPLE<br>MEASUREMENT  | 6.45  | 6.45   |   | ****           | 4.00                     | 4.00              |                       | 0   | 1/28                     | COMP2 |
| Effluent Gross                                      | PERMIT<br>REQUIREMENT  | Req. Mon.<br>MONTHLY AV   | Reg. Mon.<br>DAILY MX  | lbs/day   | *****          | 30<br>MONTHLY AV         | 100<br>DAILY MX   |                       |     | MONTHLY                  | COMP2 |
| Flow, in conduit or thru treatment plant 50050 1 0  | SAMPLE<br>MEASUREMENT  | 0.239621  | 0.295500   |   | ****           | ****                     | ****              | ****                  | 0   | 99/99                    | RCORD |
| Effluent Gross                                      | PERMIT<br>REQUIREMENT  | Req. Mon.<br>MONTHLY AV   | Req. Mon.<br>DAILY MX  | Mgal/day  | ****           | ****                     | ****              |                       |     | CONTINUOUS               | RCORD |
| Chlorine, Total Residual<br>50060 1 0               | SAMPLE<br>MEASUREMENT  | *****   | *****  |   | ****           | ****                     | 0                 |                       | 0   | 4/28                     | GRAE  |
| Effluent Gross                                      | PERMIT<br>REQUIREMENT  | ****  | ****   |   | ****           | ****                     | 0.011<br>INST MAX | mg/L                  |     | WEEKLY                   | GRAE  |
| E. Coli<br>51040 1 0                                | SAMPLE<br>MEASUREMENT  | ****  | ****   |   | ****           | <1                       | 1                 |                       | 0   | 2/28                     | GRAE  |
| Effluent Gross                                      | PERMIT<br>REQUIREMENT  | ****  | ****   | T   | ****           | 126<br>MOAVG GEO         | 410<br>DAILY MX   | #/100ml               |     | 2/Month                  | GRAE  |
|   | SAMPLE<br>MEASUREMENT  |   |  |   |                |                          |                   |                       |     |                          |       |
|   | PERMIT<br>REQUIREMENT  |   |  | 1 1   |                |                          |                   |                       |     |                          |       |
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICE               | R I CERTIFY UN   | IDER PENALTY OF LAW THAT  | THIS DOCUMENT AND A  | LL ATTACHMENTS  | WERE           |                          |                   | TELEPHON              |     | DAT                      | E     |
| TAUNIA S., VAN VALKENBURG<br>GROUP LEADER<br>EPC-CP | DESIGNED TO<br>INFORMATIO<br>THE SYSTEM<br>INFORMATIO<br>TRUE, ACCUR | D ASSURE THAT QUALIFIED F<br>N SUBMITTED, BASED ON MY<br>, OR THOSE PERSONS DIREC<br>N, THE INFORMATION SUBMI<br>RATE AND COMPLETE I AM A | PERSONNEL PROPERLY INQUIRY OF THE PERSON I'LY RESPONSIBLE FOR ITED IS, TO THE BEST O WARE THAT THERE ARE | GATHER AND EVAL<br>ON OR PERSONS VI<br>GATHERING THE<br>F MY KNOWLEDGE<br>SIGNIFICANT PEN |                | the Solling              |                   | ns I ees o            | 007 | 19 3                     |       |
| TYPED OR PRINTED                                    | FOR KNOWN  | FALSE INFORMATION, INCLU<br>IG VIOLATIONS.  | DING THE POSSIBILITY (   | JE FINE AND IMPRI   |                | FICER OR AUTHORIZED AG   |                   | 05 665-9<br>CODE NUMB |     | YEAR MO                  |       |

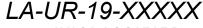
PERMIT EFFECTIVE DATE: OCTOBER 1, 2014.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used

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EPC-DO-19-091

LA-UR-19-22489





# Outfall 001 Annual DMR Oct2017- Sept2018

#### NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR) PERMITTEE NAME/ADDRESS: (Include Facility Name/Location if different) OMB No. 2040-004 TRIAD NATIONAL SECURITY LLC. NM0028355 DMR MAILING ZIP CODE: 87545 ADDRESS: LOS ALAMOS NATIONAL LABORATORY PERMIT NUMBER DISCHARGE NUMBER PO BOX 1663: MAIL STOP K490 YEARLY REPORTING - OUTFALL 001 LOS ALAMOS, NEW MEXICO 87545 MONITORING PERIOD EXTERNAL OUTFALL FACILITY: TRIAD NATIONAL SECURITY, LLC YEAR MO DAY PAGE 11 LOCATION: LOS ALAMOS, NEW MEXICO 87545 17 10 01 18 09 No Discharge MICHAEL W. HAZEN, ALDESHOSS QUANTITY OF LOADING QUALITY OF CONCENTRATION FREQUENCY SAMPLE. PARAMETER EX TYPE VALUE VALUE UNITS VALUE VALUE VALUE UNITS Copper, Dissolved (as Cu)\* \*\*\*\* 0.00622 2/365 GRAB 01040 1 0 mg/L 0.0073 Effluent Gross \*\*\*\*\* \*\*\*\*\* 1/Year GRAB DAILY MX Aluminum, Total Recoverable\* SAMPLE MEASUREMENT \*\*\*\* < 0.0193 1/365 GRAB 01104 1 0 mg/L PERMIT 0.9889 Effluent Gross \*\*\*\* \*\*\*\* REQUIREMENT **GRAB** DAILY MX Polychlorinated biphenyls (PCBs) SAMPLE MEASUREMENT 0.013 0.013 1/365 COMP24 39516 1 0 ihs/day ug/L PERMIT REQUIREMENT 0.00064 Effluent Gross 0.00064 COMP24 MONTHLY AV DAILY MX MONTHLY AV 1/Year DAILY MX SAMPLE MEASUREMENT PERMIT REQUIREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE MICHAEL W. HAZEN ASSOCIATE LABORATORY DIRECTOR ALDESHQSS SIGNATURE OF PRINCIPAL EXECUTIVE 505 667-4218 TYPED OR PRINTED OFFICER OR AUTHORIZED AGENT COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) PERMIT EFFECTIVE DATE: OCTOBER 2014. \*AL & CU EFFLUENT LIMITATIONS EFFECTIVE SEPTEMBER 1, 2017. EPA Form 3320-1 (Rev 01/06) Previous editions may be used.



LA-UR-19-XXXXX

UNCLASSIFIED



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# Outfall 001 Term DMR Oct2014 - Sept2019

#### NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR) PERMITTEE NAME/ADDRESS: (Include Facility Name/Location if different) OMB No. 2040-004 NAME: NM0028355 001-T DMR MAILING ZIP CODE: 87545 ADDRESS: LOS ALAMOS NATIONAL LABORATORY PERMIT NUMBER DISCHARGE NUMBER PO BOX 1663: MAIL STOP K490 1/TERM - OUTFALL 001 LOS ALAMOS, NEW MEXICO 87545 MONITORING PERIOD EXTERNAL OUTFALL FACILITY: LANS, LLC YEAR MO DAY YEAR MO DAY LOCATION: LOS ALAMOS, NEW MEXICO 87545 14 10 01 19 09 30 No Discharge ANTHONY R. GRIEGGS EPC-CP QUANTITY OR LOADING QUALITY OR CONCENTRATION SAMPLE FREQUENCY PARAMETER EX TYPE VALUE VALUE UNITS VALUE VALUE UNITS Adjusted Gross Alpha\* 1.36 0 1/1826 GRAB pCi/L Reg. Mon. MONTHLY AV Req. Mon. DAILY MX GRAB Effluent Gross REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT MEASUREMENT MEMONY WIGHT PROJECT OF LAW THAT THE DOCUMENT FLOW ILL ATTACHMENT, MEET PROJECT OF COMMENT AND THE PROJECT OF THE PROJEC NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE ANTHONY R. GRIEGGS GROUP LEADER EPC-CP 505 665-0451 10 SIGNATURE OF PRINCIPAL EXECUTIVE TYPED OR PRINTED OFFICER OR AUTHORIZED AGENT COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) PERMIT EFFECTIVE DATE: OCTOBER 2014. \*ADJUSTED GROSS ALPHA SAMPLE COLLECTED ON 9/22/2015 AND ANALYTICAL LAB SUBMITTED RESULTS ON 1/6/2016 EPA Form 3320-1 (Rev 01/06) Previous editions may be used PAGE 1 OF 1

• Los Alamos

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# February 2019 Spills/Overflow Report

EPC-DO: 19-091 ATTACHMENT 2 LA-UR-19-22489

#### NPDES Permit No. NM0028355 Los Alamos National Laboratory Overflow Report February 2019

|   |                |                 |      | Durati | on      |                                       |  | Discharge  |  |  |  |  |
|---|----------------|-----------------|------|--------|---------|---------------------------------------|--|--|--|--|--|--|
| Location of Overflow<br>Technical Area 3<br>Structure 510 | Date 2/28/2019 | Time<br>4:30 PM | Days | Hours  | Minutes | Quantity in<br>Gallons<br>(Estimated) | Cause of<br>Overflow<br>Unexpected<br>obstruction<br>of sanitary<br>waste water<br>line. | Location (If not contained) A portion of A portion of the wasteward discharged into a nearby storm drain | stopped the discharge. The impacted area was disinfected with a 10 percent bleach solution. Utility erews removed the blockage from the wastewater line and returned the system to normal operation. The down gradient storm drain outlet storm drain outlet | watercourse or<br>adversely impact<br>any Solid Waste<br>Management<br>Units or Areas of<br>Concern and no<br>National Pollutant<br>Discharge<br>Elimination<br>System Storm<br>Water Individual<br>Permit sites were<br>impacted by the<br>release. | Notifications The release was reported to the New Mexico Environment Department pursuant to 20.6.2.1203 NMAC as required by Ground Water | Comments The release did not reach the Sandia Canyon watercourse |
|   |                |                 |      |        |         |                                       |  |  |  |  |  |  |

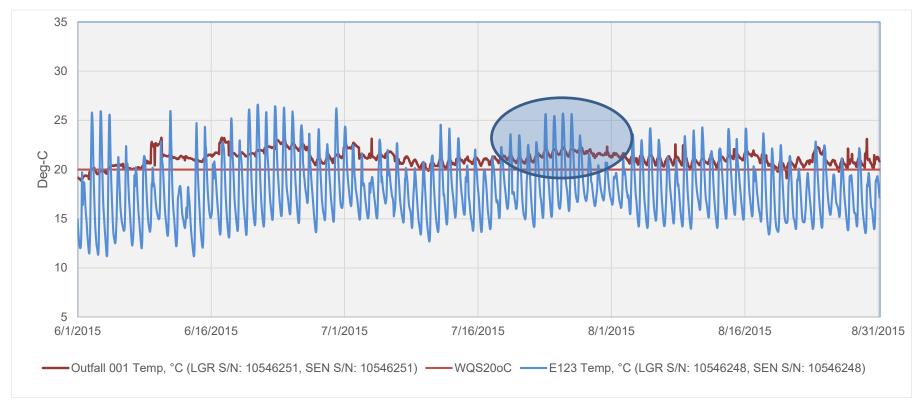
Notes: Area of Concern (AOC). Solid Waste Management Unit (SWMU), Potential Release Site (PRS).



LA-UR-19-XXXXX



### **Compliance Schedule – Temperature Limits**



Water Quality Standard of 6T3 20°C exceeded during period of July 24<sup>th</sup> through July 28<sup>th</sup> (6T3 – 6 consecutive hours on 3 consecutive days)



LA-UR-19-XXXXX

